

AMENDMENTS TO THE CLAIMS

1. (Currently Amended) A composition comprising a purified DNA having [[an]] a *Btal* oligonucleotide sequence selected from the group consisting of SEQ ID NO: 44[,] and SEQ ID NO: 49.
2. (Original) RNA transcribed from the DNA of Claim 1.
3. (Withdrawn) Protein translated from the RNA of Claim 2.
4. (Withdrawn) Antibodies produced from the protein of Claim 3.
5. (Original) A vector comprising the DNA of Claim 1.
6. (Original) A host cell comprising the vector of Claim 5.
7. (Original) The host cell of Claim 6, wherein said host cell is *E. coli*.
8. (Original) The host cell of Claim 6, wherein said host cell is *R. sphaeroides*.
9. (Original) The host cell of Claim 6, wherein said host cell is *A. thaliana*.
10. (Original) Transgenic plants comprising the vector of Claim 5.
11. (Currently Amended) A composition comprising a purified DNA encoding a *Btal* protein having the amino acid sequence selected from the group consisting of SEQ ID NO: 45 and SEQ ID NO: 50.
12. (Original) RNA transcribed from the DNA of Claim 11.
13. (Withdrawn) Protein translated from the RNA of Claim 12.
14. (Withdrawn) Antibodies produced from the protein of Claim 13.
15. (Original) A vector comprising the DNA of Claim 11.

16. (Original) A host cell comprising the vector of Claim 5.
17. (Original) The host cell of Claim 16, wherein said host cell is *E. coli*.
18. (Original) The host cell of Claim 16, wherein said host cell is *R. sphaeroides*.
19. (Original) The host cell of Claim 16, wherein said host cell is *A. thaliana*.
20. (Original) Transgenic plants comprising the vector of Claim 15.
21. (Currently Amended) A purified *Bta1* nucleic acid that specifically hybridizes to the complement of a sequence selected from the group consisting of SEQ ID NO:44, and SEQ ID NO:49, under highly stringent conditions in 5X SSPE, 1% SDS, 5X Denhardt's reagent and 100 µg/ml denatured salmon sperm DNA at 68°C overnight, followed by a washing in a solution comprising 0.1X SSPE and 0.1% SDS at 68°C, wherein said nucleic acid encodes a protein with DGTS synthetic activity.
22. (Original) A vector comprising the nucleic acid of Claim 21.
23. (Original) A host cell comprising the vector of Claim 22.
24. (Original) A transgenic plant comprising the vector of Claim 22.
25. (Withdrawn) A protein encoded by the nucleic acid of Claim 21.
26. (Currently Amended) A purified *Bta1* nucleic acid comprising a sequence that is at least 95% identical to SEQ ID NO:44, or a sequence that is at least 95% identical to SEQ ID NO:49, wherein said sequence encodes a protein with DGTS synthetic activity.
27. (Original) A vector comprising the nucleic acid of Claim 26.
28. (Original) A host cell comprising the vector of Claim 27.
29. (Original) A transgenic plant comprising the vector of Claim 27.
30. (Withdrawn) A protein encoded by the nucleic acid of Claim 26.